

PATENT ABSTRACTS OF JAPAN

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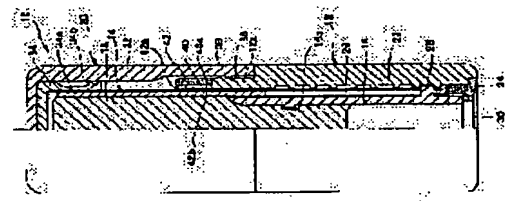
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(54) AIRTIGHT BAR-SHAPED COSMETIC CONTAINER

(57)Abstract:
PROBLEM TO BE SOLVED: To remarkably enhance the assembling work of seal cylindrical bodies, and also to insure a uniform sealing function to respective products, by inserting a seal cylindrical body from the upper end of an inner cylindrical body after an outer cylindrical body and the inner cylindrical body have been assembled with each other, and by mounting it to the upper end of the outer cylindrical body for assembling them.
SOLUTION: A small-diameter part 12a is formed to the upper end part of an outer cylindrical body 12 on which a cap 20 is fitted, and a diameter-contracted part 40 reaching the upper end of the small-diameter part 12a is formed to the outer circumference of the upper end part of the small diameter part 12a. A seal cylindrical body 42 in which a seal part 42a for covering the upper end of the diameter-contracted part 40 so as to be closely brought into contact, so that the space between the outer cylindrical body 12 and the inner cylindrical body 14 is sealed by the seal cylindrical body 42.



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CLAIMS

[Claim(s)]

[Claim 1] the inside of the outer case object which formed the spiral slot in inner circumference, and this outer case object — relativity, while being prepared pivotable While being prepared possible [relative displacement of shaft orientations] inside the container liner object with which the formation part of said spiral slot is covered, a vertical slit is formed, and the upper limit section is projected from the upper limit of said outer case object, and this container liner object The tubed cosmetics pan which protruded the guidance projection which penetrates said vertical slit and engages with said spiral slot. By being attached in the upper limit section of said outer case object removable, having a wrap cap for a part for the lobe of said container liner object, and carrying out relative rotation of an outer case object and the container liner object, where a cap is demounted In the cylindrical cosmetics container which the cylindrical cosmetics which moved spiral Mizouchi, and said guidance projection made carry out slide migration of the tubed cosmetics pan, had, and attached in said tubed cosmetics pan are made to haunt from the upper limit of a container liner object The airtight cylindrical cosmetics container characterized by preparing the annular seal barrel which has the seal section which extends on the upper limit section periphery of the outer case object with which said cap is attached toward the periphery of said container liner object, and is close to it with this.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the airtight cylindrical cosmetics container the cylindrical cosmetics contained on the container liner object were made to appear frequently by relative rotation with an outer case object and a container liner object.

[0002]

[Description of the Prior Art] This kind of cylindrical cosmetics container is used as for example, a lip stick container, by carrying out relative rotation of an outer case object and the container liner object, makes cylindrical cosmetics, such as a lip stick, project from a container, and can use cosmetics now easily (refer to JP,1-3584,Y). Said cylindrical cosmetics are attached in a tubed cosmetics pan, and this tubed cosmetics pan is prepared possible [relative displacement to shaft orientations] inside said container liner object according to the carry device by the spiral slot constituted in the lower limit section of a container, and — among these, the thing to do for the relative rotation of a barrel and said outer case object — said carry device — a tubed cosmetics pan — a carry — or it carries down and carries out, and it has and cylindrical cosmetics are made to appear frequently from the upper limit of a container liner object [0003] By the way, if it is in such a cylindrical cosmetics container in order to prevent desiccation solidification of volatile cosmetics and to prevent foreign matter invasion of dust etc. With a wrap, a seal ring is prepared for the upper limit part of the container liner object with which cosmetics appear frequently with a cap between the upper limit section inner circumference of an outer case object, and the periphery of a container liner object, and the inside of a container liner object and an outer case object is sealed from the outside as be alike, respectively.

[0004]

[Problem(s) to be Solved by the Invention] However, if it is in this conventional airtight cylindrical cosmetics container, fitting of the seal ring prepared between an outer case object and a container liner object is carried out to the slot formed in the inner circumference of an outer case object, and the periphery of a container liner object, respectively, and positioning of this seal ring is performed. That is, in case said seal ring is attached, after equipping beforehand one slot of an outer case object or a container liner object with a seal ring, a container liner object is inserted in an outer case object, it is moved to the slot on another side, compressing the seal ring which fitted into one slot at the time of this plug between an outer case object and a container liner object, and, as for a seal ring, that attachment is completed in the phase both whose slots corresponded.

[0005] For this reason, when inserting said outer case object in said container liner object, the inner skin of the outer case object with which the slot on another side was formed to the seal ring, or the peripheral face of a container liner object will ***, and this seal ring will be dragged between an outer case object and a container liner object. By this, a seal ring has a possibility that it may drop out of a slot, or a seal ring may be twisted, and it may become impossible for while fitting in beforehand to secure a good seal function. Thus, if it was in the conventional airtight cylindrical cosmetics container, since the seal of an outer case object and a container

liner object was performed by the inside of this outer case object, the technical problem that the attachment nature of a seal ring could not expect a uniform seal function between each product well occurred.

[0006] Then, this invention is made into easy structure in view of this conventional technical problem, and the good seal engine performance can be secured and it aims at offering the cylindrical cosmetics container which greatly raised commodity value.

[0007]

[Means for Solving the Problem] the inside of the outer case object with which this invention formed the spiral slot in inner circumference in order to attain this purpose, and this outer case object — relative, while being prepared pivotable While being prepared possible [relative displacement of shaft orientations] inside the container liner object with which the formation part of said spiral slot is covered, a vertical slit is formed, and the upper limit section is projected from the upper limit of said outer case object, and this container liner object The tubed cosmetics pan which protruded the guidance projection which penetrates said vertical slit and engages with said spiral slot, By being attached in the upper limit section of said outer case object removable, having a wrap cap for a part for the lobe of said container liner object, and carrying out relative rotation of an outer case object and the container liner object, where a cap is demounted in the cylindrical cosmetics container which the cylindrical cosmetics which moved spiral Mizouchi, and said guidance projection made carry out slide migration of the tubed cosmetics pan, had, and attached in said tubed cosmetics pan are made to haunt from the upper limit of a container liner object It constitutes by preparing the annular seal barrel which has the seal section which extends on the upper limit section periphery of the outer case object with which said cap is attached toward the periphery of said container liner object, and is close to it with this.

[0008] If it is in the airtight cylindrical cosmetics container of this invention by the above configuration, since the seal section of this seal barrel is close to the periphery of a container liner object by preparing a seal barrel in the upper limit section periphery of an outer case object, between these outer case object and container liner objects can be certainly sealed from the outside of an outer case object by this seal barrel. Therefore, the seal of the gap with the container liner object used as the inside of an outer case object can be carried out by said seal barrel with which it is equipped from a way outside an outer case object, without arranging a seal member between an outer case object and a container liner object. After attaching an outer case object and a container liner object, said seal barrel is inserted in from the upper limit of a container liner object. For this reason, equip the upper limit section of an outer case object, or Since the outer case object is beforehand equipped with the seal barrel and a container liner object can be inserted and attached to the outer case inside of the body after that, the attachment nature of this seal barrel can be improved sharply, and a uniform seal function can be guaranteed to each product.

[0009]

[Embodiment of the Invention] Hereafter, the example of this invention is explained to a detail with reference to an accompanying drawing, a part of condition of drawing 4 having shown one example of the airtight cylindrical cosmetics container of this invention from drawing 1, drawing 1 having removed the fracture front view, and drawing 2 having removed the cap in part, and 3 having projected cylindrical cosmetics — a part of condition of a fracture front view and drawing 3 having removed the cap, and having projected cylindrical cosmetics — a fracture perspective view and drawing 4 — some caps — it is a fracture perspective view.

[0010] Namely, as the airtight cylindrical cosmetics container 10 of this example is shown in drawing 3 from drawing 1, while fitting of the container liner object 14 is carried out inside the outer case object 12 By carrying out fitting of the tubed cosmetics pan 16 inside this container liner object 14, and filling up this tubed cosmetics pan 16 with the cylindrical cosmetics 18, an outline configuration is carried out, and the upper part of said container liner object 14 is covered, and the upper limit section of the outer case object 12 is equipped with cap 20 removable.

[0011] Said outer case object 12 is formed in the shape of [which was opened wide up and

down] a cylinder, the inner circumference is covered at the predetermined die length of shaft orientations, and the spiral slot 22 is formed. And the bottom plate 24 of the shape of a ring to which opening of the center section was carried out is attached in the lower limit section by which the outer case object 12 was opened wide.

[0012] said container liner object 14 is formed in the shape of [which was opened wide up and down] a cylinder, and is formed for a long time than said outer case object 12 — having — the inside of this outer case object 12 — — relativity — — abbreviation close is carried out pivotable and fitting is carried out. And the upper limit section of the container liner object 14 is projected only for predetermined die length from the upper limit of the outer case object 12 in the state of this fitting. Moreover, the vertical slit 26 is formed in the part by which said spiral slot 22 was formed in the part by which fitting of the container liner object 14 is carried out to the outer case object 12.

[0013] Said tubed cosmetics pan 16 is formed in the shape of [which was opened wide up and down] a cylinder, and fitting of the relative displacement of shaft orientations of it is made possible inside said container liner object 14. And from the lower limit section outside of the tubed cosmetics pan 16, the guidance projection 28 which penetrates said vertical slit 26 and engages with said spiral slot 22 protrudes on one. Moreover, stop projection 16a protrudes inside said tubed cosmetics pan 16, and it prevents that said cylindrical cosmetics 18 with which this stop projection 16a was filled up in the tubed cosmetics pan 16 are pulled out.

[0014] In addition, said cylindrical cosmetics 18 make reverse said outer case object 12, said container liner object 14, and said tubed cosmetics pan 16, and a bottom plate 24 is located up. And it is formed by pouring in the cosmetics of a melting condition over the inside of the tubed cosmetics pan 16 and the container liner object 14 from central opening of said bottom plate 24, where the clear aperture (drawing 1 Nakagami edge) at the tip in which it will be located under the container liner object 14 is stopped. Moreover, after central opening of said bottom plate 24 pours in the cosmetics of said melting condition, it sticks the seal paper 30 and has stopped it airightly.

[0015] Said cap 20 consists of a cylinder-like body cylinder 32 by which the closedown of the upper limit was carried out, and a interpolation cylinder 34 formed in the shape of [to which it was inserted inside this body cylinder 32, and the closedown of the upper limit was carried out like this body cylinder 32] a cylinder, as shown in drawing 4 . Fitting of the lower limit section of said body cylinder 32 is carried out to the narrow diameter portion 12a periphery formed in the upper limit section of said outer case object 12. While the 1st stop projection 36 protrudes on the periphery of narrow diameter portion 12a of the outer case object 12 at this time, the 2nd stop projection 38 protrudes on the inner circumference of the body cylinder 32, and these 1st and 2nd stop projections 36 and 38 are mutually engaged in the condition of having been equipped with the cap 20.

[0016] Said interpolation cylinder 34 is formed by flexible members, such as synthetic resin, and the upper limit side by which the closedown was carried out pastes it up on the closedown edge inferior surface of tongue of the body cylinder 32. While 1st seal section 34a by which close fitting is carried out to the upper limit section periphery of the container liner object 14 is formed in the upper limit section of said interpolation cylinder 34 Bending section 34b whose diameter is expanded in the outer-diameter direction is formed in this 1st seal section 34a bottom, and the tip of this bending section 34b is contacted inside said body cylinder 32, and adds resiliency to said 1st seal section 34a by this bending section 34b.

[0017] Here, in this example, while forming the diameter reduction section 40 which reaches the upper limit of this narrow diameter portion 12a in the upper limit section periphery of narrow diameter portion 12a of the outer case object 12 with which cap 20 is attached, the seal barrel 42 is attached in this diameter reduction section 40. While said seal barrel 42 is annularly formed by elasticity material, such as elasticity synthetic resin and rubber, and seal section 42a which is close to the periphery of said container liner object 14 as covers the upper limit of said narrow diameter portion 12a in the upper limit section is formed, fitting of seal barrel 42 the very thing is been [the very thing / it] close and carried out to the periphery of said diameter reduction section 40. In addition, said seal barrel 42 engages with annular crevice 40a which annular

heights 42b formed in the inner circumference of this formed in the periphery of the diameter reduction section 40, and ***** is performed.

[0018] If it is in the airtight cylindrical cosmetics container 10 of this example by the above configuration, in the condition of having contained the cylindrical cosmetics 18 and having equipped with the cap 20 as shown in drawing 1 , the 1st and 2nd stop projections 36 and 38 of cap 20 and the outer case object 12 are engaged mutually, and 1st seal section 34a of the interpolation cylinder 34 is close to the upper limit section periphery of the container liner object 14.

[0019] And in case said cylindrical cosmetics 18 are used, the guidance projection 28 of the tubed cosmetics pan 16 which penetrates the vertical slit 26 moves along the spiral slot 22 by demounting cap 20 and carrying out the RRC of the relative rotation 12, for example, the outer case object, for the outer case object 12 and the container liner object 14. Then, the tubed cosmetics pan 16 is advanced up and makes the cylindrical cosmetics 18 project from the upper limit of the container liner object 14, as shown in drawing 2 and drawing 3 .

[0020] Moreover, the guidance projection 28 can move the outer case object 12 and the container liner object 14 to hard flow along the spiral slot 22 by carrying out the RLC of the relative rotation 12, for example, the outer case object, at an opposite direction, and after use termination of the cylindrical cosmetics 18 can carry down the tubed cosmetics pan 16, and can contain the cylindrical cosmetics 18 in the container liner object 14.

[0021] By the way, in this example, the seal barrel 42 is attached in the diameter reduction section 40 used as the upper limit section of the outer case object 12, while seal section 42a is close to the periphery of the container liner object 14, this seal barrel 42 very thing is close to said diameter reduction section 40, and fitting of this seal barrel 42 is carried out. For this reason, between these outer case object 12 and the container liner objects 14 can be certainly sealed from the outside of the outer case object 12 by said seal barrel 42. Therefore, in the condition of having equipped with said cap 20, since the container 10 interior is certainly sealed by said 1st seal section 34a and said seal section 42a, invasion of desiccation of the cylindrical cosmetics 18, dust, etc. can be prevented.

[0022] Thus, in this example, a seal can be secured by this seal barrel 42 with which it is equipped from a way outside the seal barrel 42 12 attached in said diameter reduction section 40, i.e., an outer case object, without arranging a seal member between these outer case object 12 and the container liner object 14 in sealing between the outer case object 12 and the container liner objects 14. For this reason, after attaching the outer case object 12 and the container liner object 14 by which fitting is carried out Said seal barrel 42 is inserted in from the upper limit of the container liner object 14. Equip said diameter reduction section 40, or Since the outer case object 12 side is beforehand equipped with the seal barrel 42 and the container liner object 14 can be inserted and attached in the outer case object 12 after that, the attachment nature of this seal barrel 42 will improve sharply, and a uniform seal function will be obtained to each product.

[0023] Drawing 5 and drawing 6 show other examples, and omit and describe the explanation which gives the same sign to the same component as said example, and overlaps it. in addition, drawing 5 — a part — a fracture front view and drawing 6 — some caps — is a fracture perspective view.

[0024] While installing the interpolation cylinder 34 of cap 20 to near the lower limit section of the body cylinder 32 in this example and forming 1st seal section 34a in the upper limit section of the interpolation cylinder 34 like said example It goes caudad from this 1st seal section 34a, the diameter is expanded gradually, the periphery of the lower limit section is contacted inside the body cylinder 32, and the 34d of the 2nd seal sections which are close to the inner circumference of this contact partial 34c at the periphery of the seal barrel 42 is formed.

[0025] Moreover, in this example, the 2nd stop projection 38 is formed in the lower limit section inner circumference of said interpolation cylinder 34, and this 2nd stop projection 38 engages with the 1st stop projection 36 formed in narrow diameter portion 12a of the outer case object 12 in the state of wearing of cap 20.

[0026] Therefore, in this example, since 1st seal section 34a and the 34d of the 2nd seal

sections are prepared in the interpolation cylinder 34, in the condition of having been equipped with the cap 20, it becomes double-seal structure and the sealing performance in a container 10 can be raised more.

[0027] In addition, since the seal barrel 42 is attached in the diameter reduction section 40 formed in the upper limit section of the outer case object 12 and the seal of between the outer case object 12 and the container liner objects 14 is carried out by seal section 42a of this seal barrel 42, even if it is in this example, while the attachment nature of the seal barrel 42 improves sharply, the seal function which carried out homogeneity to each product can be obtained.

[0028]

[Effect of the Invention] If it is in the airtight cylindrical cosmetics container of this invention as explained above. Since the seal barrel which formed the seal section close to the periphery of a container liner object in the upper limit section periphery of the outer case object with which a cap is attached is prepared and between these outer case object and container liner objects was sealed from the outside of an outer case object by this seal barrel. The seal of the gap with the container liner object used as the inside of an outer case object can be carried out by said seal barrel with which it is equipped from a way outside an outer case object, without arranging a seal member between an outer case object and a container liner object. After following, for example, attaching an outer case object and the container liner object of each other, the outstanding effectiveness that the attachment nature of this seal barrel can be improved sharply, and a uniform seal function can be guaranteed to each product since said seal barrel can be inserted in from the upper limit of a container liner object, the upper limit section of an outer case object can be equipped and it can attach is done so.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] one example of the airtight cylindrical cosmetics container of this invention is shown — it is a fracture front view a part.

[Drawing 2] a part of condition of having removed the cap in which one example of this invention is shown, and having projected cylindrical cosmetics — it is a fracture front view.

[Drawing 3] a part of condition of having removed the cap in which one example of this invention is shown, and having projected cylindrical cosmetics — it is a fracture perspective view.

[Drawing 4] some caps in which one example of this invention is shown — it is a fracture perspective view.

[Drawing 5] It is the front view which carried out the cross section of the important section which shows other examples of this invention.

[Drawing 6] It is the *** Fig. which carried out the cross section of the important section of the cap in which other examples of this invention are shown.

[Description of Notations]

10 Cylindrical Cosmetics Container 12 Outer Case Object

14 Container Liner Object 16 Tubed Cosmetics Pan

18 Cylindrical Cosmetics 20 Cap

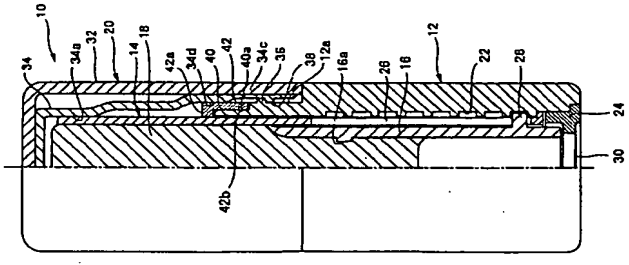
22 Spiral Slot 26 Vertical Slit

28 Guidance Projection 40 Diameter Reduction Section

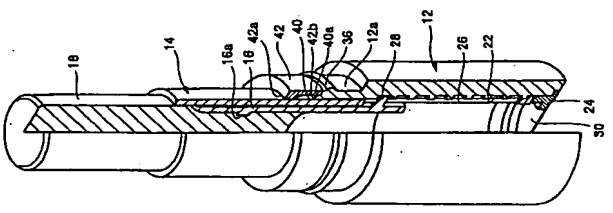
42 Seal Barrel 42a Seal Section

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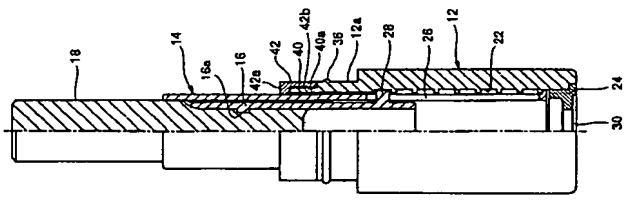
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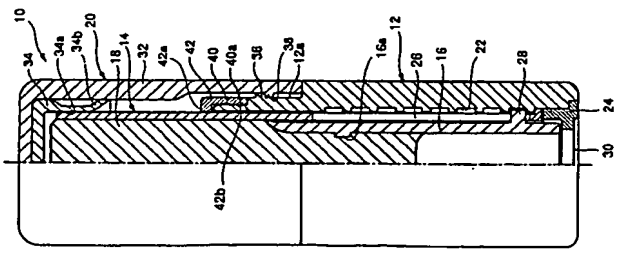
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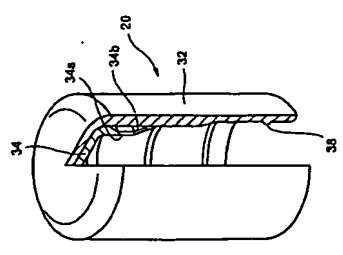
【図2】



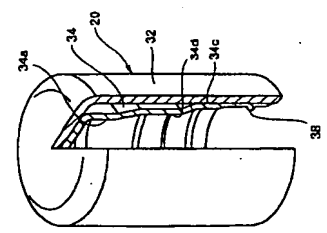
【図1】



【図4】



【図6】



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